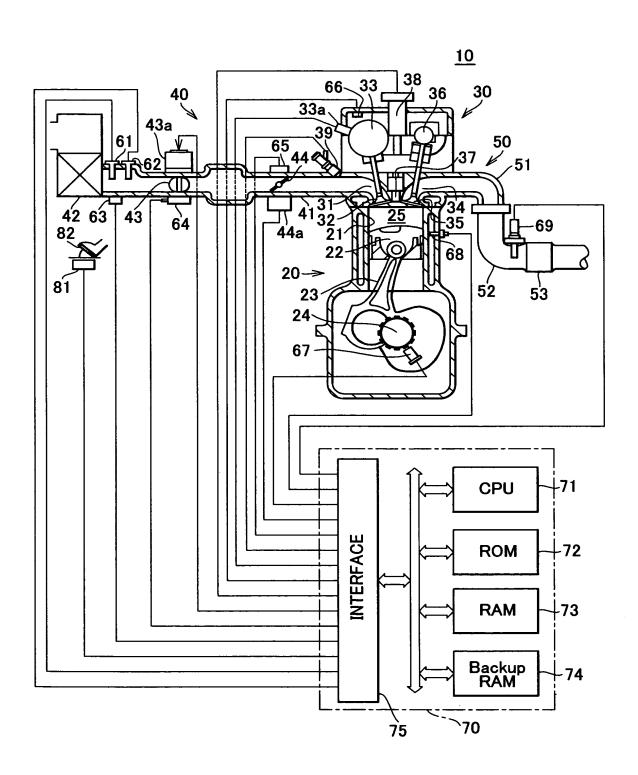
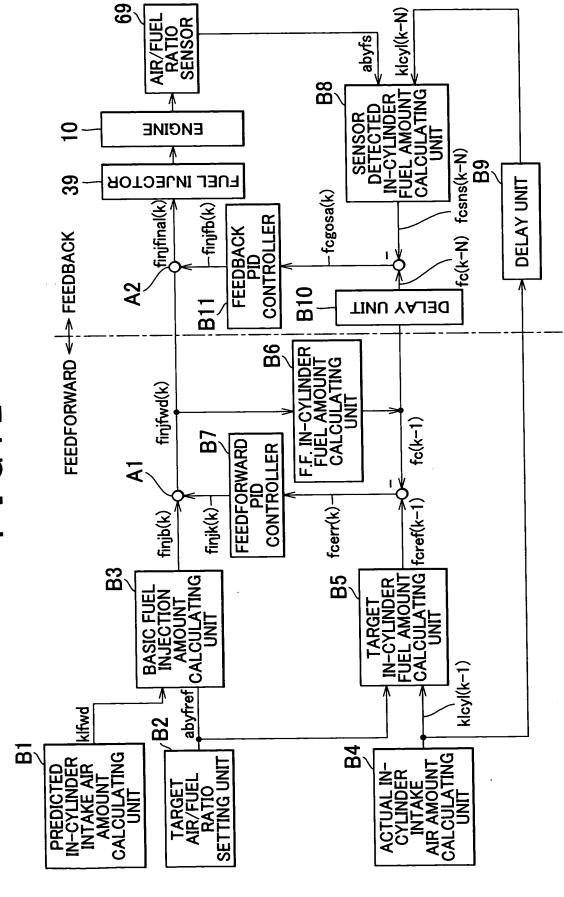
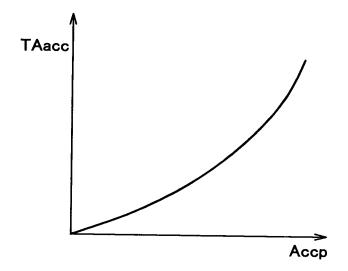
F I G . 1



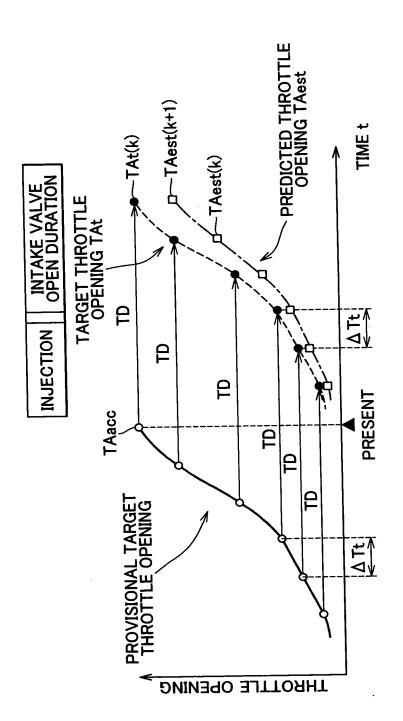
F I G . 2



F I G . 3



F I G . 4



F I G . 5

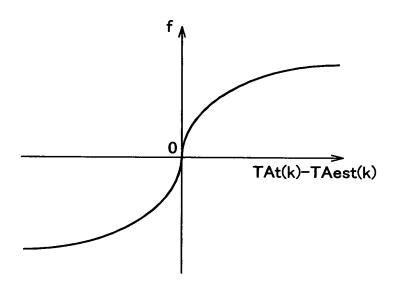


FIG.6

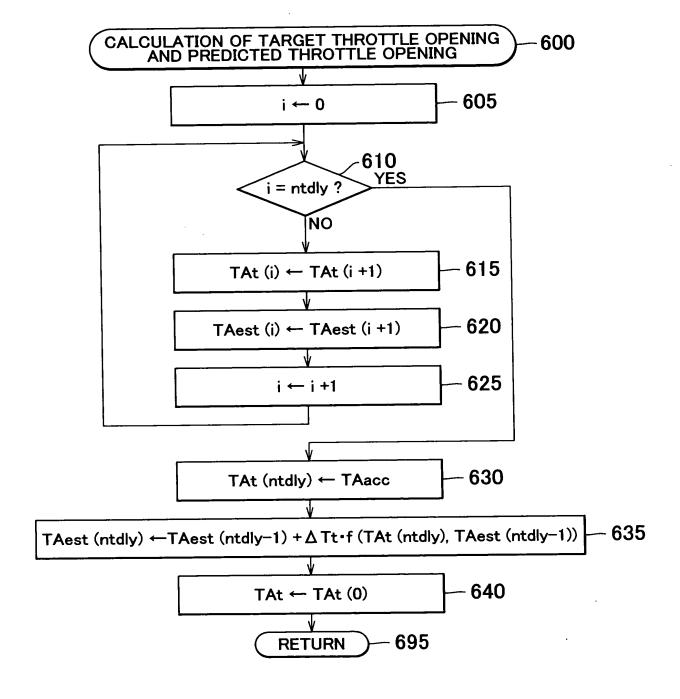
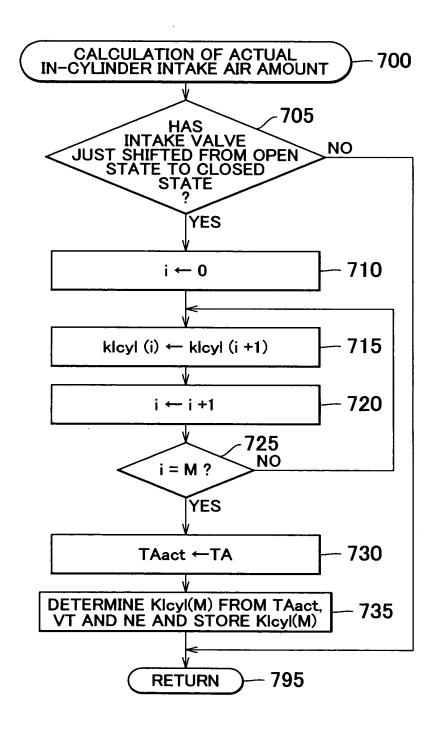


FIG. 7



F I G . 8

CALCULATION OF INJECTION AMOUNT - 800	
klcyl ← klcyl (M)	— 805
	,
$fc(k-1)\leftarrow \{1-Pp(k cy)\}\cdot fwp(k-1)-\{1-Pv(k cy)\}\cdot fwv(k-1)$	— 810
+{1-Rp(klcyl)-Rv(klcyl)}·finjfwd(k-1)	- 610
V	•
$fwp(k) \leftarrow Pp(k cy) \cdot fwp(k-1) + Rp(k cy) \cdot finjfwd(k-1)$	— 815
fwv(k)←Pv(klcyl)·fwv(k-1)+Rv(klcyl)·finjfwd(k-1)	013
<u> </u>	
fcref(k−1)←klcyl(k−1)/abyfref	 820
<u> </u>	
fcerr(k)←fcref(k-1)-fc(k-1)	 825
F1:55(1) (5 (1) 5 (1 4)	1
fcerrdiff(k)←fcerr(k)−fcerr(k−1)	— 830
fcerrin(k)←fcerrin(k-1)+fcerr(k)	
finit/k) - K	005
finjk(k)←Kp·fcerr(k)+Kd·fcerrdiff(k)+Ki·fcerrin(k)	 835
SELECT TAest(k) BASED ON NE AND VT	040
SELECT TAESTIK) BASED ON NE AND VI	 840
DETERMINE klfwd BASED ON TAest(k), NE AND VT	— 845
DETERMINE KIWO BASED ON TAESL(K), NE AND VI	043
tfcref(k)←klfwd/abyfref	 850
V CIGIOICITY KIIWU/ ABYITEI	000
$finjb(k) \leftarrow \frac{tfcref(k)-[1-Pp(klfwd)]\cdot fwp(k)-[1-Pv(klfwd)]\cdot fwv(k)}{1-Pv(klfwd)}\cdot fwv(k)$	
1-Rp(klfwd)−Rv(klfwd)	 855
V	
finjfwd(k)←finjb(k)+finjk(k)	 860
	000
fcsns(k−N)←klcyl(k−N)/abyfs	 865
V	
fcgosa(k)←fc(k-N)-fcsns(k-N)	— 870
V	
fcgosadiff(k)←fcgosa(k)–fcgosa(k-1)	075
fcgosain(k)←fcgosain(k−1)+fcgosa(k)	 875
V	
finjfb(k)←Gp·fcgosa(k)+Gd·fcgosadiff(k)+Gi·fcgosain(k)	 880
V	
finjfinal(k)←finjfwd(k)+finjfb(k)	— 885
THE STELL AND TH	
INJECT FUEL AMOUNT OF finjfinal(k)	— 890
<u> </u>	
(RETURN)— 895	